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Developing a data publication workflow: collaboration between units at Purdue

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DEVELOPING A DATA PUBLICATION WORKFLOW

COLLABORATION BETWEEN UNITS AT PURDUE

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Wednesday, March 26, 2014

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CASE STUDY

PURDUE LIBRARIES & THE JOINT TRANSPORTATION RESEARCH PROGRAM

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COLLABORATORS

PUL AND JTRP

Players:

- Purdue University Libraries (PUL)
    - Data & Metadata Services
    - D2C2
    - Purdue University Press
- Joint Transportation Research Program
- Civil Engineering Faculty

Shared goals:

- Compliance with funder requirements
- Expose data
- Create an integrated publishing workflow linking tech reports and data

Actions:

- Identify use case
- Stage datasets in PURR
- Format and stage technical report
- Linking the data

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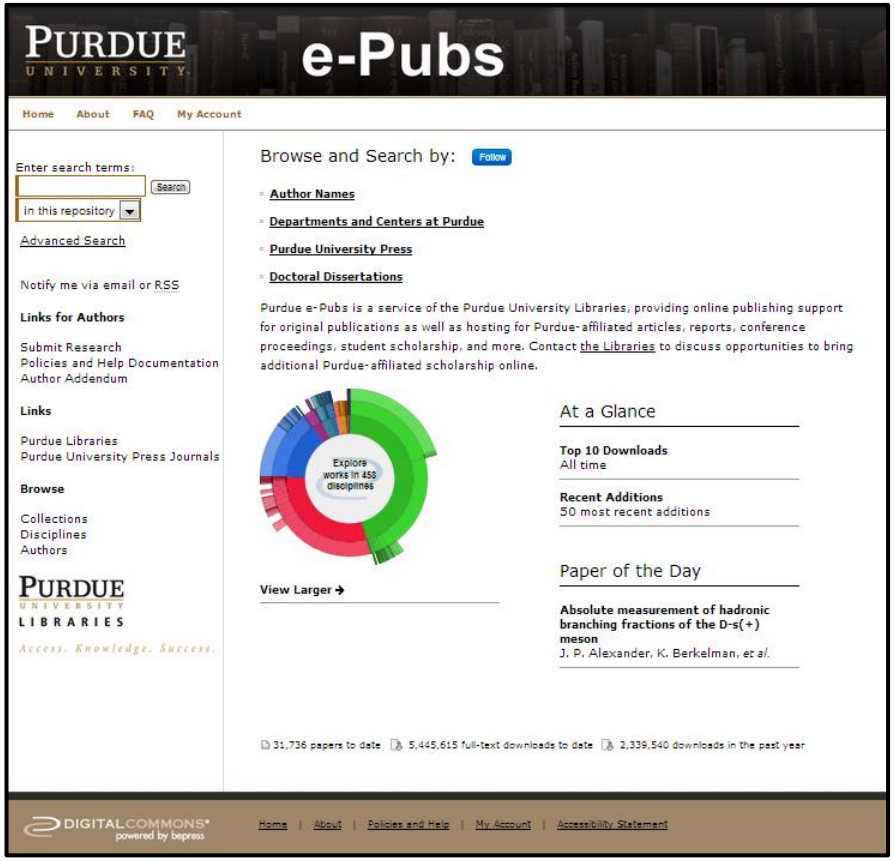
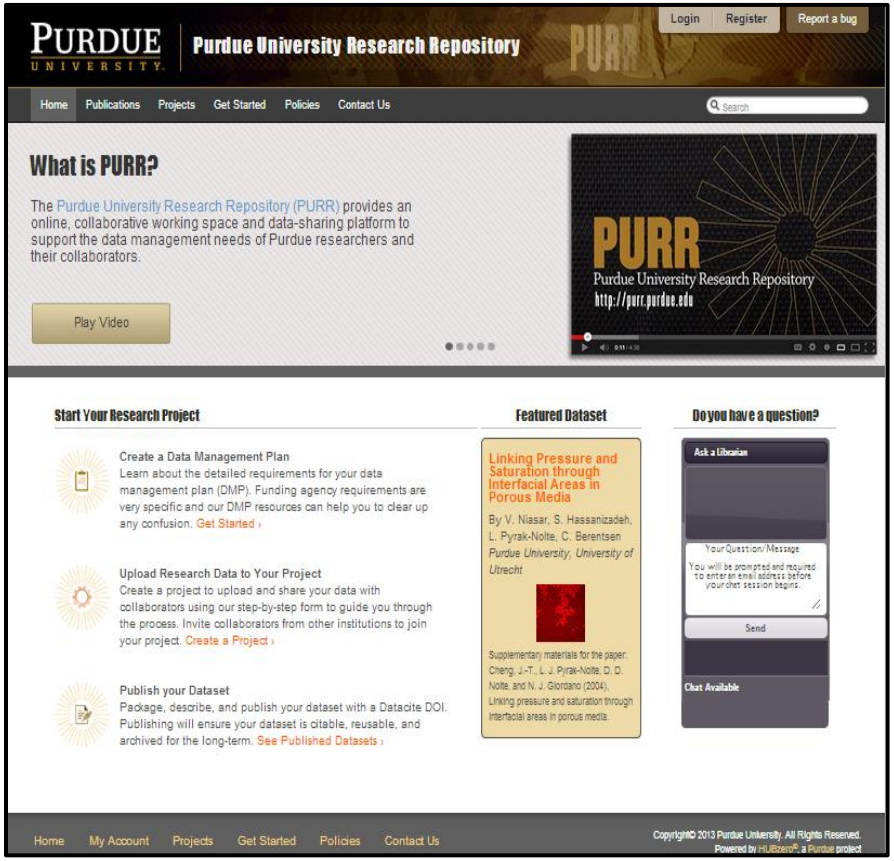
A SERVICE MODEL OF COLLABORATION

Purdue e-Pubs and the Purdue University Research Repository (PURR)

Publications



Data



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JTRP TECHNICAL REPORTS

This Web page portal lists over 1,500 technical reports published as part of the JHRP, and subsequently JTRP, collaborative venture between Purdue University and the Indiana Department of Transportation. Additional details regarding the history of JHRP, as well as current activities of the JTRP program, can be found by clicking on the respective hyperlinks.

Technical Reports from 2012

FHWA/IN/JTRP-2012/01, Analysis and Methods of Improvement of Safety at High-Speed Rural Intersections, Andrew P. Tarko, Samuel Leckrone, and Panagiotis Anastasopoulos, SPR-3316

FHWA/IN/JTRP-2012/02, Identifying Traffic Safety Needs – A Systematic Approach: Research Report and User Manual, Andrew P. Tarko, Shafiul Md Azam, Jose Thomaz, and Mario Romero, SPR-3315

FHWA/IN/JTRP-2012/03, Evaluation of Reclaimed Asphalt Pavement for Surface Mixtures, Rebecca S. McDaniel, Karol J. Kowalski, and Ayesha Shah, SPR-3018

FHWA/IN/JTRP-2012/04, Evaluation of Pavement Surface Friction Treatments, Shuo Li, Samy Noureldin, Yi Jiang, and Yanna Sun, SPR-3088

FHWA/IN/JTRP-2012/06, Application of Travel Time Information for Traffic Management, Christopher M.

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EVOLVING WORKFLOWS

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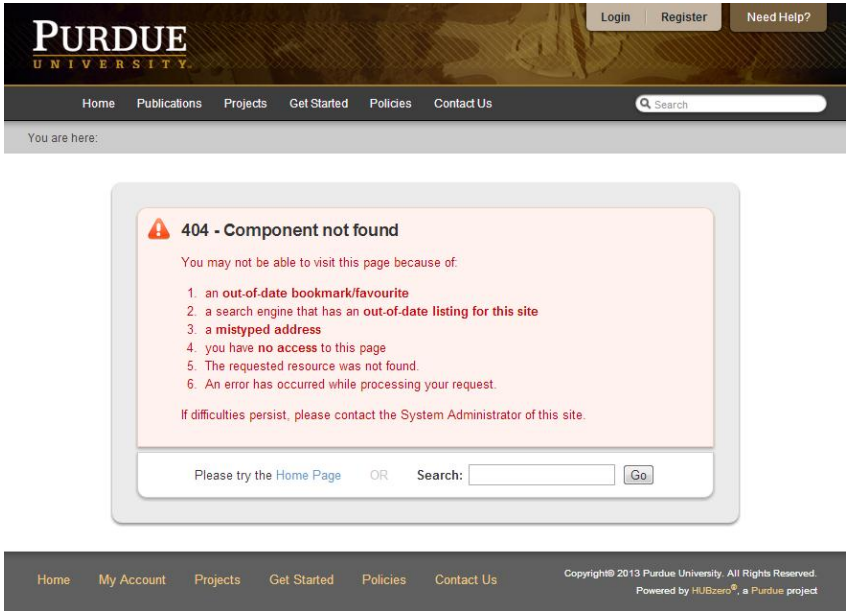

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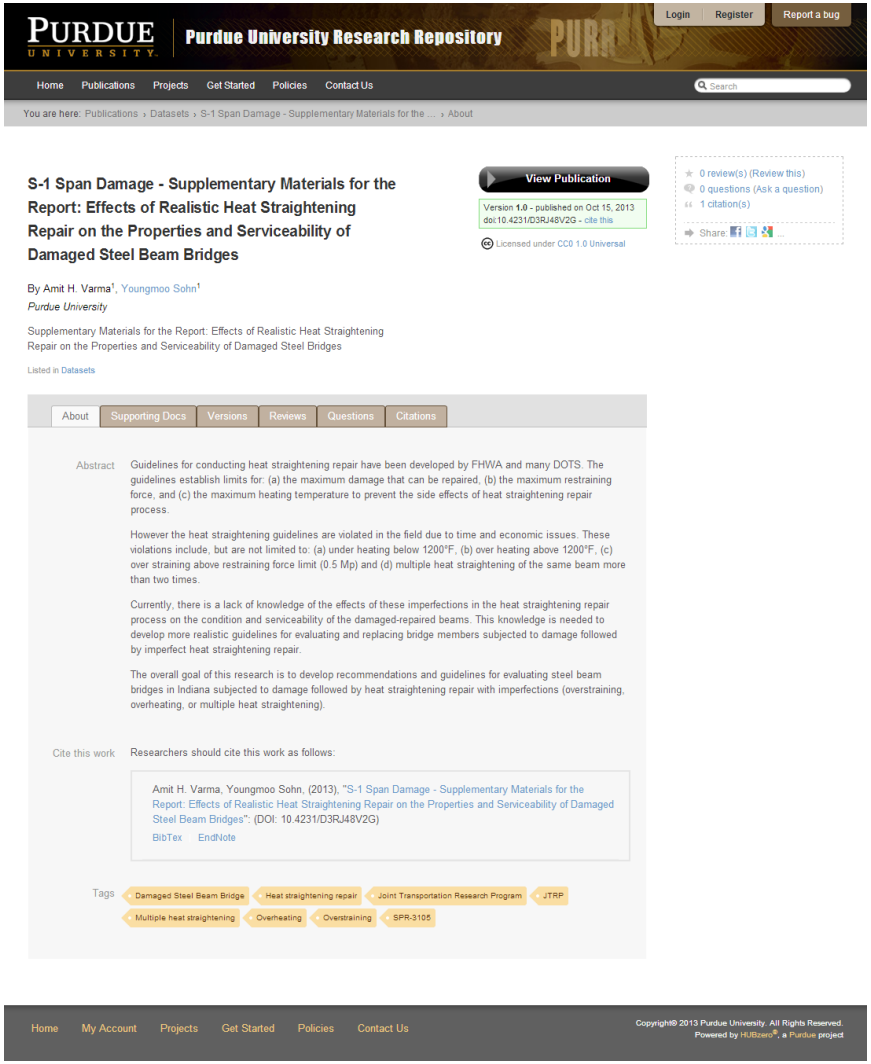

LINKING TECHNICAL REPORTS AND DATA

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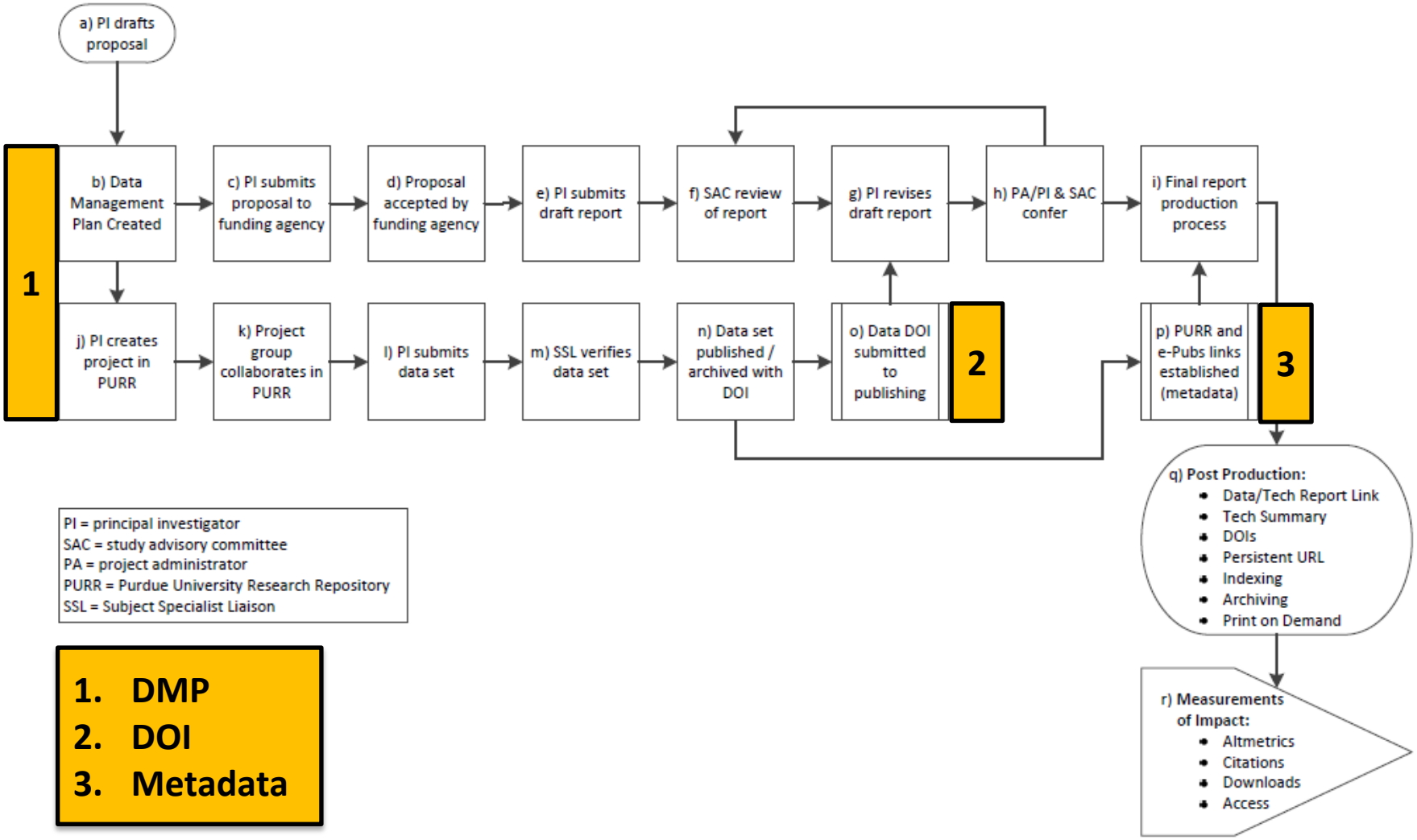
COHESIVE PUBLICATION WORKFLOW



PI = principal investigator
SAC = study advisory committee
PA = project administrator
PURR = Purdue University Research Repository
SSL = Subject Specialist Liaison

1. DMP
2. DOI
3. Metadata

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JTRP LINKED PUBLICATIONS

TECHNICAL REPORT

- Varma, A. H. and Y. Sohn, "Effects of Realistic Heat Straightening Repair on the Properties andServiceability of Damaged Steel Beam Bridges," Publication FHWA/IN/JTRP-2013/03, Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. (DOI: 10.5703/1288284315184).

DATA

- Amit Varma, Youngmoo Sohn, (2013), "ADJUSTING FORCE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3SF2MC0W)
- Amit Varma, Youngmoo Sohn, (2013), "DAMAGED GIRDER - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3X63B541)
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 1 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3NS0KX8Z)
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 2 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3J09W45G)
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 3 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D30Z70W9F)
- Amit Varma, Youngmoo Sohn, (2013), "N-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3W66984S)
- Amit Varma, Youngmoo Sohn, (2013), "N-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D38G8FH7Z)
- Amit Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3RJ48V2G)
- Amit Varma, Youngmoo Sohn, (2013), "S-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D34Q7QQ3T)
- Amit Varma, Youngmoo Sohn, (2013), "TEMPERATURE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3D795B1Q)

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JTRP TECHNICAL REPORTS

Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

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Varma, A. H., and Y. Sohn. *Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges*. Publication FHWA/IN/JTRP-2013/03. Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. doi: 10.5703/1288284315184.

DOI

10.5703/1288284315184

Comments

2

Supplementary videos for SPR-3105:

Amit Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: 10.4231/D3RJ48V2G)

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Purdue University

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1

Varma, A. H. and Y. Sohn, "Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges," Publication FHWA/IN/JTRP-2013/03, Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. (DOI: 10.5703/1288284315184).

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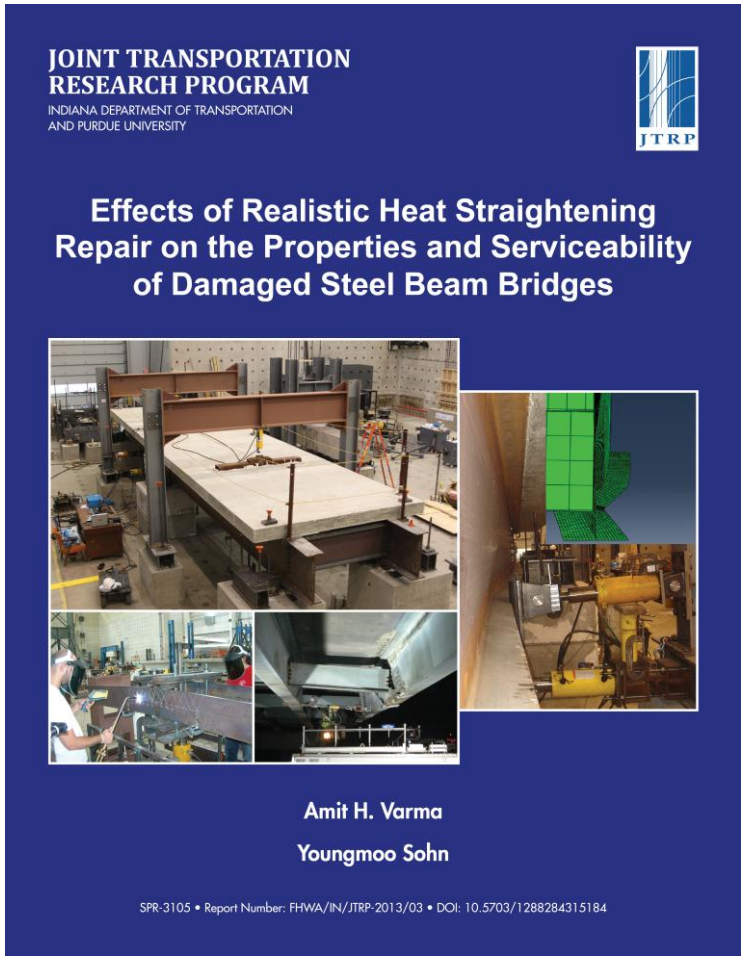

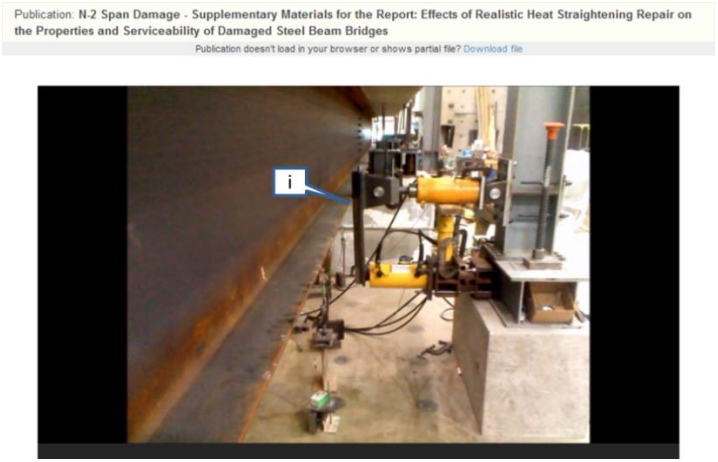

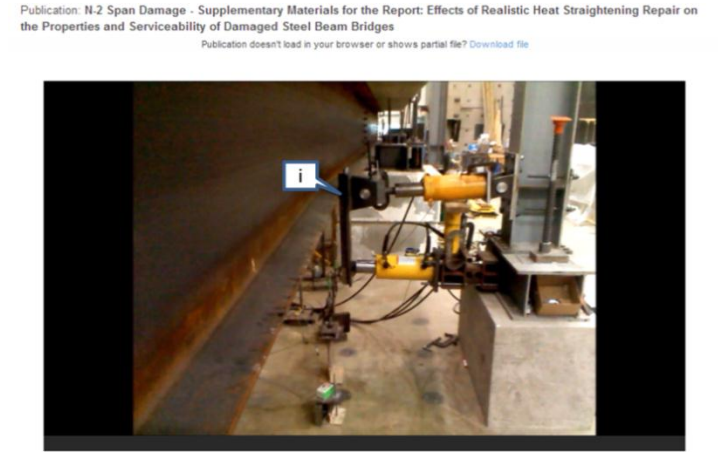

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  - Recordings of experimental behavior, failure
  - Data streams
  - Analytical models and predictions
- Dissemination with knowledge transfer
- DOI: Digital Object Identifier
  - Most important aspect… permanent address on the web
  - Reference, one click away

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QUESTION AND COMMENTS

Thank You

This work was supported in part by the Joint Transportation Research Program administered by the Indiana Department of Transportation and Purdue University. The contents of this paper reflect the views of the authors, who are responsible for the facts and the accuracy of the data presented herein, and do not necessarily reflect the official views or policies of the sponsoring organizations. These contents do not constitute a standard, specification, or regulation.

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